

## ABSTRACT OF THE INVENTION

A table look-up method for ASN.1 encoding/decoding systems is disclosed. Once the invention receives input data, it adds a specified index to the received data, then it analyzes whether the received data contains explicit reference data, implicit reference data or optional data. The invention further modifies the specified index of explicit, implicit or optional data. It compares the consistency of the modified specified index with the specified index in a reference table; if it is consistent, it declares the input data being fully decoded. The conventional method has four main steps: (1). Updating definition data. (2). Executing program generator. (3). Redoing encoding and decoding. (4). Applying new function. This invention simplifies the method into two main steps: (1). Updating definition data. (2). Applying new function. Furthermore, this method does not need to modify program for encoding/decoding a file. This method simplifies the conventional flow process for handling the tabulated data file.